



7Y4

7Y4

FULL-WAVE VACUUM RECTIFIER

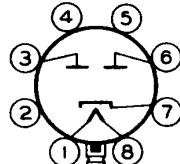
GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 6.3⁰ ac or dc volts
Current. 0.5⁰⁰ amp**Mechanical:**

Mounting Position. Any
 Maximum Overall Length. 2-25/32"
 Maximum Seated Length. 2-1/4"
 Maximum Diameter. 1-3/16"
 Bulb. T-9
 Base. Lock-in 8-Pin
 Basing Designation for BOTTOM VIEW. 5AB

Pin 1-Heater
 Pin 2-No
 Connection
 Pin 3-Plate No.2
 Pin 4-No
 Connection



Pin 5-No
 Connection
 Pin 6-Plate No.1
 Pin 7-Cathode
 Pin 8-Heater
 Plug - Base Shell

FULL-WAVE RECTIFIER**Maximum Ratings, Design-Center Values:**

PEAK INVERSE PLATE VOLTAGE 1250 max. volts
 PEAK PLATE CURRENT PER PLATE 180 max. ma
 DC OUTPUT CURRENT. 70 max. ma

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode 450 max. volts
 Heater positive with respect to cathode 450 max. volts

Typical Operation:

<u>Capacitor- Input to Filter</u>	<u>Choke- Input to Filter</u>
---	---------------------------------------

AC Plate-to-Plate Supply Voltage (RMS)	650	900 . . . volts
Filter-Input Capacitor	4	- . . . μ f
Min. Total Effective Plate- Supply Impedance per Plate*	150	- . . . ohms
Min. Filter-Input Choke.	-	10 . . . henries
DC Output Current.	70	70 . . . ma
DC Output Voltage at Input to Filter (Approx.):		
At half-load (35 ma.).	390	385 . . . volts
At full-load (70 ma.).	355	375 . . . volts
Voltage Regulation (Approx.):		
Half-load to full load current	35	10 . . . volts

* Indicated value for conditions shown will limit peak plate current to maximum rated value. When a filter-input capacitor larger than 4 μ f is used, it may be necessary to use more plate-supply impedance than the value shown to limit the peak plate current to the rated value.

Nominal voltage = 7.0 volts. Nominal current = 0.53 ampere.

← Indicates a change.

DEC. 30, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA